AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (currently amended): A V-belt continuously variable transmission comprising:

an input shaft;

an output shaft;

- a primary pulley that is connected to the input shaft and whose groove width ehanges is configured to change in accordance with a supplied fluid pressure;
- a secondary pulley that is connected to the output shaft and whose groove width ehanges-is configured to change in accordance with a supplied fluid pressure;
- a V-belt that is wrapped around the primary pulley and the secondary pulley; and a controller that is configured functioning to:

when a speed ratio of the transmission is to be increased,

set the fluid pressure supplied to the primary pulley to <u>a fluid fluid</u> pressure necessary for ensuring a torque capacity of the V-belt and necessary for maintaining the speed ratio, and

set the fluid pressure supplied to the secondary pulley to a fluid an fluid pressure that is increased from higher than the fluid pressure necessary for ensuring the torque capacity of the V-belt and necessary for maintaining the speed ratio by an amount necessary for, thereby attaining a target speed change speed.

2. (currently amended): A V-belt continuously variable transmission-according to claim 1, comprising:

an input shaft;

an output shaft;

- a primary pulley that is connected to the input shaft and whose groove width is configured to change in accordance with a supplied fluid pressure;
- a secondary pulley that is connected to the output shaft and whose groove width is configured to change in accordance with a supplied fluid pressure;
- a V-belt that is wrapped around the primary pulley and the secondary pulley; and a controller that is configured to: wherein the controller further functions to:
 - compute a pulley ratio maintenance thrust force, which is a thrust force necessary for maintaining—the speed a speed ratio, for each of the pulleys;
 - compute a thrust force correction amount for achieving the target a target speed change speed; and
 - when increasing the speed ratio, the speed ratio is to be increased:
 - set the fluid pressure supplied to the primary pulley to a fluid pressure

 necessary for ensuring a torque capacity of the V-belt and
 necessary for maintaining the speed ratio, and
 - pressure that is higher than the fluid pressure necessary for ensuring the torque capacity of the V-belt and necessary for maintaining the speed ratio, thereby attaining the target speed change speed;
 - supply a fluid pressure to the primary pulley corresponding to the pulley ratio maintenance thrust-force, force; and
 - supply a fluid pressure to the secondary pulley corresponding to the sum of the pulley ratio maintenance thrust force and the thrust force correction amount.

3. (currently amended): A V-belt continuously variable transmission according to claim 2, wherein the controller is further configured functions to:

convert the target speed change speed into a pulley stroke speed; and compute the thrust force correction amount from the pulley stroke speed and the pulley ratio.

- 4. (currently amended): A V-belt continuously variable transmission according to claim 1, further comprising:
 - a first valve for regulating a fluid pressure from a fluid pressure pump to a line pressure;
 - a second valve for regulating a fluid pressure supplied to the primary pulley using the line pressure; and
 - a third valve for regulating a fluid pressure supplied to the secondary pulley using the line pressure,

wherein: the wherein the controller is further configured functions to:

set the larger of the pressure supplied to the primary pulley and the pressure supplied to the secondary pulley as a target line pressure; and

control the first valve such that the line pressure becomes the target line pressure.

5. (currently amended): A speed change control method for a V-belt continuously variable transmission having: a primary pulley connected to an input shaft and whose groove width is configured to change changes—in accordance with a supplied fluid pressure; a secondary pulley connected to an output shaft and whose groove width changes—is configured to change in accordance with a supplied fluid pressure; and a V-belt that is wrapped around the primary pulley and the secondary pulley, the method comprising:

when a speed ratio of the transmission is to be increased; increased:

- setting the fluid pressure supplied to the primary pulley to <u>a fluid</u> an fluid pressure necessary for ensuring a torque capacity of the V-belt and necessary, and necessary for maintaining the speed ratio; and
- setting the fluid pressure supplied to the secondary pulley to <u>a fluid an fluid</u> pressure <u>that is increased from higher than</u> the fluid pressure necessary for ensuring the torque capacity of the V-belt and necessary for maintaining the speed ratio <u>by an amount necessary for attaining a, to thereby achieve the target speed change speed.</u>